**6/25/24**, **2:12** PM

**Diabetes Type** 1 **Diabetes** | **Type 2 Diabetes** | **MedlinePlus**

**An official website of** the United States **government Here's how you know**

National Institutes **of** Health ***/* National Library of Medicine**

MedlinePlus **25**

**Trusted Health** Information for You

YEARS

of health information

**Home → Health Topics → Diabetes**

**URL of this page**: **https://medlineplus.gov/diabetes.html**

**Diabetes**

Also **called**: **Diabetes mellitus**, **DM**

**Diabetes is a disease** in **which your blood glucose,** or **blood sugar [https://medlineplus.gov/bloodglucose.html**], **levels are too high**. **Glucose comes** from the **foods you eat. Insulin is a hormone that helps the glucose get** into **your cells** to **give them energy. With** type 1 diabetes **[**https://medlineplus.gov/diabetestype1.html], **your** body **does not make insulin. With type 2** diabetes **[https://medlineplus.gov/diabetestype2.html**], the **more** common **type, your body does not make or use insulin well. Without enough insulin**, **the glucose stays in your blood**. **You** can **also have** prediabetes **[**https://medlineplus.gov/prediabetes.html]**. This means that your** blood **sugar is higher than normal but not** high **enough to be called diabetes**. **Having prediabetes puts you at a higher risk of getting type 2 diabetes**.

**Over time, having too much glucose in your blood can cause serious problems [https://medlineplus.gov/diabetescomplications.html**]. It **can damage your eyes**

**[https://medlineplus.gov/diabeticeyeproblems.html]**, **kidneys [https://medlineplus.gov/diabetickidneyproblems.html]**, and **nerves [https://medlineplus.gov/diabeticnerveproblems.html**]. **Diabetes can also cause** heart disease **[https://medlineplus.gov/diabeticheartdisease.html**], **stroke and even the need to remove a limb. Pregnant women can also get diabetes, called gestational diabetes [https://medlineplus.gov/diabetesandpregnancy.html**].

Blood **tests can** show **if you have diabetes**. **One type of** test, **the** A1C **[https://medlineplus.gov/a1c.html**], **can also check on how you are managing your diabetes**. **Exercise, weight control and sticking** to **your meal plan [https://medlineplus.gov/diabeticdiet.html**] **can help** control **your diabetes**. **You** should **also monitor your** blood **glucose level and take medicine [https://medlineplus.gov/diabetesmedicines.html]** if **prescribed**.

*NIH:* ***National Institute of Diabetes and Digestive and Kidney Diseases***

**Start Here**

**Diabetes [https://familydoctor.org/condition/diabetes/?adfree=true]** (**American** Academy **of Family Physicians)**

**Managing Diabetes [https://www.niddk.nih.gov/health-information/diabetes/overview/managing-diabetes]**

NIH **(National Institute** of **Diabetes and Digestive and Kidney Diseases)**

**Also** in **Spanish [https://www.niddk.nih.gov/health-information/informacion-de-la-salud/diabetes/informacion-general/control]**

• What is Diabetes**? [https://www.niddk.nih.gov/health-information/diabetes/overview/what-is-diabetes]**

NIH **(National Institute of Diabetes** and **Digestive and Kidney Diseases)**

**Also** in Spanish [https://www.niddk.nih.gov/health-information/informacion-de-la-salud/diabetes/informacion-general/que-es]

**https://medlineplus.gov/diabetes.html#**

**1/8**

**6/25/24**, **2:12** PM

**Diagnosis and Tests**

**Diabetes Type** 1 **Diabetes** | **Type 2** Diabetes | **MedlinePlus**

• A1C: MedlinePlus Health Topic **[https://medlineplus.gov/a1c.html**] NIH **(National Library of Medicine) Also** in **Spanish** [https://medlineplus.gov/spanish/a1c.html]

**• At-Home** Medical Tests [**https://medlineplus.gov/lab-tests/at-home-medical-tests/]** NIH (**National Library of** Medicine**) Also** in Spanish [https://medlineplus.gov/spanish/pruebas-de-laboratorio/pruebas-medicas-en-el-hogar/**]**

**•** Blood Glucose Test **[https://medlineplus.gov/lab-tests/blood-glucose-testЛ]** NIH **(National Library** of Medicine) **Also** in **Spanish [https://medlineplus.gov/spanish/pruebas-de-laboratorio/prueba-de-glucosa-en-la-sangre/**]

• **Diabetes** Tests and Diagnosis **[https://www.niddk.nih.gov/health-information/diabetes/overview/tests-diagnosis]**

NIH **(National** Institute **of Diabetes and Digestive and Kidney Diseases**)

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**Also** in **Spanish [https://www.niddk.nih.gov/health-information/informacion-de-la-salud/diabetes/informacion-general/pruebas-** diagnostico]

Glucagon Blood Test [**https://medlineplus.gov/lab-tests/glucagon-blood-test**] NIH **(National Library of** Medicine) **Also** in Spanish **[**https://medlineplus.gov/spanish/pruebas-de-laboratorio/analisis-de-sangre-de-glucagon/**]**

Glucose in Urine Test **[https://medlineplus.gov/lab-tests/glucose-in-urine-test/]** NIH **(National Library of** Medicine) **Also** in **Spanish [https://medlineplus.gov/spanish/pruebas-de-laboratorio/prueba-de-glucosa-en-la-orina/]**

Ketones **in** Blood [https://medlineplus.gov/lab-tests/ketones-in-blood/**]** NIH (**National Library of Medicine**)

**Also** in Spanish [https://medlineplus.gov/spanish/pruebas-de-laboratorio/prueba-de-cetonas-en-sangre/**]**

• Ketones in Urine **[https://medlineplus.gov/lab-tests/ketones-in-urine/**] NIH **(National Library of Medicine) Also** in **Spanish** [**https://medlineplus.gov/spanish/pruebas-de-laboratorio/prueba-de-cetonas-en-la-orina/]**

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**Prevention and Risk Factors**

**How to Prevent** Diabetes: MedlinePlus Health **Topic [https://medlineplus.gov/howtopreventdiabetes.html**]

NIH **(National Library of Medicine)**

**Also** in **Spanish [https://medlineplus.gov/spanish/howtopreventdiabetes.html**]

**Treatments and Therapies**

**Diabetes Medicines: MedlinePlus Health** Topic **[https://medlineplus.gov/diabetesmedicines.html**]

NIH **(National Library of** Medicine**)**

**Also** in **Spanish** [**https://medlineplus.gov/spanish/diabetesmedicines.html]**

**Living With**

Changing **Your** Habits for Better **Health [https://www.niddk.nih.gov/health-information/diet-nutrition/changing- habits-better**-**health]** NIH **(National** Institute **of Diabetes and Digestive and Kidney Diseases)**

**Also** in Spanish [https://www.niddk.nih.gov/health-information/informacion-de-la-salud/alimentacion-nutricion/como-cambiar-sus-

**habitos-para-tener**-**una-mejor-salud**]

Diabetes and Digestion [https://www.heart.org/en/health-topics/diabetes/about-diabetes/prediabetes-and-digestion] (**American Heart Association)**

• Diabetes and **DKA (**Ketoacidosis**) [**https://diabetes.org/about-diabetes/complications/ketoacidosis-dka/dka- **ketoacidosis-ketones]** (**American Diabetes** Association**)**

• **Diabetes** and **Mental** Health **[https://www.cdc.gov/diabetes/living-with/mental-health.html**]

**(Centers for Disease Control and Prevention)**

**Also** in **Spanish [https://www.cdc.gov/diabetes/es/living-with/la-diabetes-y-la-salud-mental.html**]

**https://medlineplus.gov/diabetes.html#**

**2/8**

**6/25/24, 2:12 PM**

**Diabetes Type** 1 **Diabetes** | **Type 2 Diabetes** | **MedlinePlus**

**• Diabetic Diet: MedlinePlus Health Topic [https://medlineplus.gov/diabeticdiet.html**] NIH **(National Library of** Medicine) **Also** in **Spanish [**https://medlineplus.gov/spanish/diabeticdiet.html]

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Healthy **Weight [https://www.cdc.gov/diabetes/living-with/healthy-weight.html**]

**(Centers for Disease Control and Prevention)**

**Managing Diabetes in the Heat [https://www.cdc.gov/diabetes/articles/managing-diabetes-in-the-heat.html**] **(Centers for Disease Control and Prevention)**

**•** Take **Diabetes** to Heart **[https://www.nhlbi.nih.gov/resources/take-diabetes-heart-fact-sheet**]

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NIH Easy-to-*Read* **(National Heart, Lung, and** Blood **Institute) - PDF**

Tips for Traveling **with** Diabetes [**https://www.cdc.gov/diabetes/about/tips-for-traveling-with-diabetes.html**] **(Centers for Disease** Control **and Prevention)**

• Your Diabetes Care Team [**https://www.cdc.gov/diabetes/treatment/diabetes-doctors.html**]

**(Mayo Foundation for Medical Education and Research)**

**Related Issues**

• A1C Test **and Race/Ethnicity [https://www.niddk.nih.gov/health-information/diagnostic-tests/a1c-test-race-ethnicity**]

NIH **(National Institute** of **Diabetes and Digestive** and **Kidney Diseases)**

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Healthy **Living with** Diabetes **[https://www.niddk.nih.gov/health-information/diabetes/overview/healthy-living-with-**

**diabetes?dkrd-/health-**information/diabetes**/overview**/diet-eating**-physical**-**activity]**

NIH **(National Institute of Diabetes and Digestive and Kidney Diseases)**

**Also** in Spanish [**https://www.niddk.nih.gov/health-information/informacion-de-la-salud/diabetes/informacion-general/nutricion- alimentacion-actividad-**fisica]

Hyperinsulinemia: **Is** it diabetes**? [https://www.mayoclinic.org/diseases-conditions/type-2-diabetes/expert- answers**/**hyperinsulinemia/**FAQ**-20058488?p=1]** (**Mayo Foundation for Medical** Education and **Research**)

**Also** in Spanish [**https://www.mayoclinic.org/es/diseases-conditions/type-2-diabetes/expert-answers/hyperinsulinemia/FAQ- 20058488?p=1]**

**People at** Higher **Risk of** Flu **Complications [https://www.cdc.gov/flu/highrisk/]**

**(Centers for Disease Control and Prevention)**

**Also** in **Spanish** [**https://espanol.cdc.gov/flu/highrisk/index.htm**]

People **with** Diabetes and **Hepatitis B [https://www.cdc.gov/hepatitis/populations/diabetes.htm] (Centers for Disease Control and Prevention)**

Prediabetes:MedlinePlus **Health** Topic **[**https://medlineplus.gov/prediabetes.html**]** NIH **(National Library of Medicine) Also** in **Spanish [https://medlineplus.gov/spanish/prediabetes.html]**

**Speak** Up -- Diabetes**:** Five Ways **to Be Active** in **Your** Care **at the Hospital**

**[https://www.jointcommission.org/-/media/tjc/documents/resources/speak-up/diabetes\_brochure-5-15-2020.pdf]**

**(Joint** Commission**) - PDF**

**Symptoms** and Causes of **Diabetes [https://www.niddk.nih.gov/health-information/diabetes/overview/symptoms- causes]** NIH **(National Institute of Diabetes and Digestive and Kidney Diseases)**

**Also** in **Spanish** [**https://www.niddk.nih.gov/health-information/informacion-de-la-salud/diabetes/informacion-general/sintomas-causas]**

**Vaccinations** for Adults **with Diabetes [https://www.immunize.org/wp-content/uploads/catg.d/p4043.pdf**] **(Immunization** Action Coalition**) - PDF**

**Genetics**

**17q12 deletion syndrome**: **MedlinePlus Genetics [https://medlineplus.gov/genetics/condition/17q12-deletion-** syndrome] NIH **(National Library of Medicine)**

**https://medlineplus.gov/diabetes.html#**

**3/8**

**6/25/24**, **2:12** PM

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**Diabetes Type 1 Diabetes | Type 2 Diabetes** | **MedlinePlus**

**6q24-related** transient neonatal diabetes mellitus**:** MedlinePlus Genetics [**https://medlineplus.gov/genetics/condition/6q24-related-transient-neonatal-diabetes-mellitus]**

NIH **(National Library of Medicine)**

Congenital generalized lipodystrophy: MedlinePlus Genetics

**[**https://medlineplus.gov/genetics/condition/congenital-generalized-lipodystrophy] NIH) **(National Library of Medicine)**

Familial partial lipodystrophy**: MedlinePlus Genetics [https://medlineplus.gov/genetics/condition/familial-partial-** lipodystrophy**]** NIH **(National Library of** Medicine**)**

Genetics of Diabetes **[**https://diabetes.org/about-diabetes/genetics-diabetes**]** (**American Diabetes Association)**

Maternally inherited diabetes and deafness: MedlinePlus Genetics

[https://medlineplus.gov/genetics/condition/maternally-inherited-diabetes-and-deafness**]**

NIH **(National Library of Medicine)**

**• Maturity-onset** diabetes **of the young**: **MedlinePlus Genetics [https://medlineplus.gov/genetics/condition/maturity- onset-**diabetes-**of-the-young]** NIH **(National Library of Medicine)**

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Monogenic Forms of Diabetes**:** Neonatal Diabetes **Mellitus** and **Maturity**-Onset Diabetes **of the** Young **[https://www.niddk.nih.gov/health-information/diabetes/overview/what-is-diabetes/monogenic-neonatal-mellitus-**

mody**]** NIH **(National Institute** of **Diabetes and Digestive and Kidney Diseases)**

**Thiamine-responsive megaloblastic anemia syndrome**: **MedlinePlus Genetics [**https://medlineplus.gov/genetics/condition/thiamine-responsive-megaloblastic-anemia-syndrome]

NIH **(National Library of Medicine)**

Type A insulin resistance syndrome: MedlinePlus Genetics [https://medlineplus.gov/genetics/condition/type-a- insulin**-resistance-**syndrome] NIH **(National Library of Medicine**)

• **Wolfram syndrome**: **MedlinePlus** Genetics **[https://medlineplus.gov/genetics/condition/wolfram-syndrome**]

NIH **(National Library of** Medicine**)**

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**Test Your Knowledge**

Type **2 Diabetes Facts Quiz** [https://medlineplus.gov/ency/quiz/001214\_3.htm**]** (**Medical Encyclopedia)**

**Also** in **Spanish [https://medlineplus.gov/spanish/ency/quiz/001214\_63.htm**]

**Statistics and Research**

• **Diabetes** in America, 3rd Edition **[https://www.niddk.nih.gov/about-niddk/strategic-plans-reports/diabetes-in-** america-**3rd**-**edition]** NIH **(National Institute of Diabetes and Digestive** and **Kidney Diseases)**

• Diabetes Interactive **Atlas [https://gis.cdc.gov/grasp/diabetes/DiabetesAtlas.html**]

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**(Centers for Disease Control and Prevention)**

**FastStats**: Diabetes [**https://www.cdc.gov/nchs/fastats/diabetes.htm]** (**National Center for Health Statistics)**

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National Diabetes **Statistics Report [https://www.cdc.gov/diabetes/php/data-research/**] **(Centers for Disease** Control and **Prevention)**

**•** Native Americans **with Diabetes [https://www.cdc.gov/vitalsigns/pdf/2017-01-vitalsigns.pdf]**

**(Centers for Disease Control and Prevention) - PDF**

• Recent Advances **(in** Diabetes **Research) [**https://diabetes.org/recent-advances**] (American Diabetes Association)**

**https://medlineplus.gov/diabetes.html#**

**4/8**

**6/25/24**, **2:12** PM

**Clinical Trials**

**Diabetes Type** 1 **Diabetes** | **Type 2** Diabetes | **MedlinePlus**

**• ClinicalTrials.gov:** Diabetes **Mellitus** [**https://clinicaltrials.gov/search**?

cond**=%**22Diabetes**+Mellitus%22&aggFilters=status:**not**%20rec]** NIH (**National Institutes of Health)**

**Journal Articles**

**References and** abstracts **from MEDLINE/PubMed (National Library of** Medicine)

• Article: Impact of telemedical management on **hospitalization** and **mortality in** heart failure... **[**https://www.ncbi.nlm.nih.gov/pubmed/38867198]

• Article**: Effectiveness of a theory**-based foot care education **program** on **self-**efficacy and... **[https://www.ncbi.nlm.nih.gov/pubmed/38608160**]

• Article**: A** purified reconstituted **bilayer matrix shows improved outcomes in** treatment **of... [**https://www.ncbi.nlm.nih.gov/pubmed/38606794]

Diabetes **-- see more articles [https://pubmed.ncbi.nlm.nih.gov/**?

**term=%**22Diabetes**+Mellitus%22%**5Bmajr**%**3Anoexp**%5D+AND+humans%**5Bmh%5D+**AND+english%5Bla%5D+** AND**+%22last+1+**Year**%22+%5Bedat%5D+**AND**+%28patient+**education+handout**%5Bpt**%**5D+OR+**guideline**%5Bp** t%**5D**+**OR+clinical+trial**%5Bpt%**5D%29++**NOT+**%28letter%5Bpt**%**5D+OR+case+**reports**%**5Bpt**%5D**+**OR+editorial**

%5Bpt**%5D+OR+**comment%5Bpt%**5D**%**29+AND+**free**+full+text%5Bsb%5D+]**

**Reference Desk**

• Common Terms [https://diabetes.org/about-diabetes/common-terms**]** (**American Diabetes Association)**

**Find an Expert**

• American Diabetes Association [https://diabetes.org/]

Find a Diabetes Educator [**https://nf01.diabeteseducator.org/eweb/DynamicPage.aspx?** Site=AADE**&WebCode=AADEDiaEduDirectory]** (**Association of Diabetes Care and Education Specialists)**

• National Institute of Diabetes and Digestive and Kidney Diseases [https://www.niddk.nih.gov**]** NIH)

**• NIDDK** Information **Clearinghouses** and Health Information Center **[https://www.niddk.nih.gov/health- information**/community**-**health**-**outreach/information-clearinghouses**]**

NIH **(National Institute** of **Diabetes and Digestive and Kidney Diseases)**

**Women**

• **Diabetes [https://www.womenshealth.gov/a-z-topics/diabetes] (Department of Health** and **Human Services, Office on Women's Health) Also** in **Spanish** [**https://espanol.womenshealth.gov/a-z-topics/diabetes**]

**Older Adults**

• Diabetes **[https://www.healthinaging.org/a-z-topic/diabetes] (AGS Health in Aging Foundation)**

• **Diabetes in Older People [https://www.nia.nih.gov/health/diabetes/diabetes-older-people]**

NIH **(National Institute on Aging)**

**Also** in **Spanish [https://www.nia.nih.gov/espanol/diabetes/diabetes-personas-mayores]**

**https://medlineplus.gov/diabetes.html#**

**5/8**

**6/25/24, 2:12 PM**

**Patient Handouts**

**Diabetes Type** 1 **Diabetes** | **Type 2** Diabetes | **MedlinePlus**

• A1C **test** [**https://medlineplus.gov/ency/article/003640.htm]** (**Medical Encyclopedia)**

**Also** in Spanish [https://medlineplus.gov/spanish/ency/article/003640.htm]

• Blood **sugar** test **[https://medlineplus.gov/ency/article/003482.htm]** (**Medical Encyclopedia)**

**Also** in Spanish [**https://medlineplus.gov/spanish/ency/article/003482.htm**]

**• Diabetes [https://medlineplus.gov/ency/article/001214.htm**] (**Medical Encyclopedia)**

**Also** in **Spanish** [**https://medlineplus.gov/spanish/ency/article/001214.htm]**

• Diabetes **-** keeping active [**https://medlineplus.gov/ency/patientinstructions/000084.htm]** (**Medical Encyclopedia) Also** in **Spanish [https://medlineplus.gov/spanish/ency/patientinstructions/000084.htm]**

**Diabetes -** when **you are sick [https://medlineplus.gov/ency/patientinstructions/000079.htm] (Medical Encyclopedia) Also** in **Spanish** [https://medlineplus.gov/spanish/ency/patientinstructions/000079.htm]

Diabetes and **exercise** [**https://medlineplus.gov/ency/patientinstructions/000083.htm]** (**Medical** Encyclopedia**) Also** in **Spanish** [**https://medlineplus.gov/spanish/ency/patientinstructions/000083.htm]**

**• Diabetes myths** and **facts [https://medlineplus.gov/ency/patientinstructions/000964.htm]** (Medical **Encyclopedia) Also** in **Spanish [**https://medlineplus.gov/spanish/ency/patientinstructions/000964.htm]

• **Diabetes** tests and checkups **[**https://medlineplus.gov/ency/patientinstructions/000082.htm**]** (**Medical Encyclopedia) Also** in **Spanish [https://medlineplus.gov/spanish/ency/patientinstructions/000082.htm**]

Giving **an insulin injection [**https://medlineplus.gov/ency/patientinstructions/000660.htm**]** (**Medical Encyclopedia) Also** in **Spanish [https://medlineplus.gov/spanish/ency/patientinstructions/000660.htm**]

High blood **sugar - self-**care **[https://medlineplus.gov/ency/patientinstructions/000332.htm]** (**Medical Encyclopedia) Also** in Spanish [**https://medlineplus.gov/spanish/ency/patientinstructions/000332.htm**]

• **Low** blood **sugar - self-**care **[https://medlineplus.gov/ency/patientinstructions/000085.htm] (Medical Encyclopedia) Also** in **Spanish [**https://medlineplus.gov/spanish/ency/patientinstructions/000085.htm]

120

**MEDICAL ENCYCLOPEDIA**

A1C test **[https://medlineplus.gov/ency/article/003640.htm**]

ACE blood **test [**https://medlineplus.gov/ency/article/003567.htm]

Anti**-insulin antibody** test [**https://medlineplus.gov/ency/article/003375.htm**]

**https://medlineplus.gov/diabetes.html#**

**6/8**

**6/25/24, 2:12** PM

**Diabetes Type** 1 **Diabetes Type 2 Diabetes** | **MedlinePlus**

Blood sugar **test [https://medlineplus.gov/ency/article/003482.htm]**

Diabetes **[https://medlineplus.gov/ency/article/001214.htm]**

**Diabetes -** keeping **active [https://medlineplus.gov/ency/patientinstructions/000084.htm]**

**Diabetes - when you are sick [https://medlineplus.gov/ency/patientinstructions/000079.htm]**

**Diabetes** and **exercise** [**https://medlineplus.gov/ency/patientinstructions/000083.htm]**

Diabetes **myths** and **facts [https://medlineplus.gov/ency/patientinstructions/000964.htm]**

Diabetes tests and checkups **[https://medlineplus.gov/ency/patientinstructions/000082.htm]**

Giving **an insulin** injection **[https://medlineplus.gov/ency/patientinstructions/000660.htm**]

**Glucose** tolerance test **- non-pregnant [https://medlineplus.gov/ency/article/003466.htm**]

Glucose **urine test [https://medlineplus.gov/ency/article/003581.htm**]

High blood **sugar - self**-**care** [**https://medlineplus.gov/ency/patientinstructions/000332.htm**]

Immunizations for people with diabetes **[https://medlineplus.gov/ency/patientinstructions/000331.htm**]

Insulin C-**peptide test [https://medlineplus.gov/ency/article/003701.htm**]

Ketones blood test [https://medlineplus.gov/ency/article/003498.htm]

**Ketones urine** test [https://medlineplus.gov/ency/article/003585.htm]

**Lactic acidosis [https://medlineplus.gov/ency/article/000391.htm]**

**Low** blood **sugar - self-care [https://medlineplus.gov/ency/patientinstructions/000085.htm**]

Preparing for surgery when you have diabetes [https://medlineplus.gov/ency/patientinstructions/000702.htm**]**

**Related Health Topics**

A1C [**https://medlineplus.gov/a1c.html**]

Blood **Glucose [https://medlineplus.gov/bloodglucose.html**]

Diabetes and **Pregnancy [https://medlineplus.gov/diabetesand** pregnancy.html]

Diabetes **Complications [https://medlineplus.gov/diabetescomplications.html**]

**Diabetes** in Children and Teens **[**https://medlineplus.gov/diabetesinchildrenandteens.html]

**Diabetes Medicines [https://medlineplus.gov/diabetesmedicines.html**]

Diabetes **Type 1 [**https://medlineplus.gov/diabetestype1.html**]**

Diabetes **Type 2** [**https://medlineplus.gov/diabetestype2.html]**

Diabetic Diet **[**https://medlineplus.gov/diabeticdiet.html**]**

Diabetic Eye Problems **[**https://medlineplus.gov/diabeticeyeproblems.html]

Diabetic Foot [https://medlineplus.gov/diabeticfoot.html]

**Diabetic** Heart Disease [https://medlineplus.gov/diabeticheartdisease.html]

Diabetic **Kidney** Problems **[https://medlineplus.gov/diabetickidneyproblems.html**]

**https://medlineplus.gov/diabetes.html#**

**7/8**

**6/25/24, 2:12** PM

**Diabetes** Type 1 **Diabetes** | **Type 2 Diabetes** | **MedlinePlus**

**Diabetic** Nerve Problems [https://medlineplus.gov/diabeticnerveproblems.html]

**Hyperglycemia** [**https://medlineplus.gov/hyperglycemia.html**]

Hypoglycemia **[https://medlineplus.gov/hypoglycemia.html**]

**Islet** Cell Transplantation [https://medlineplus.gov/isletcelltransplantation.html]

**Pancreas** Transplantation **[**https://medlineplus.gov/pancreastransplantation.html]

Prediabetes [https://medlineplus.gov/prediabetes.html]

**National Institutes of Health**

**The primary** NIH **organization for research on *Diabetes* is** the **National** Institute **of** Diabetes and **Digestive** and Kidney Diseases **[https://www.niddk.nih.gov**]

**Other Languages**

Find health information in languages other than **English [**https://medlineplus.gov/languages/diabetes.html**]** on

***Diabetes***

**NIH MedlinePlus Magazine**

**Diabetes**: **What** You Need to Know [**https://magazine.medlineplus.gov/article/diabetes-what-you-need-to-know]**

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**National Institutes of Health**

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**8/8**